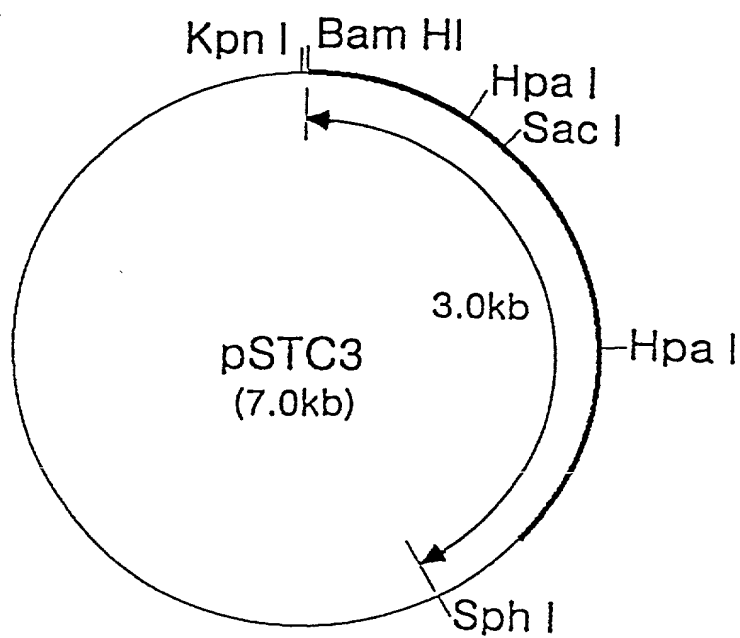


Fig. 1



	10	20	30	40	50
PFUL	MNKKGLTVLF	IAIMLLSVVP	VHFVSAETPP	VSSENSTTSI	LPNQVVVTKE
TCES		MKRLGAVV	LALVLVGLLA	GTALAAPVKP	VVRNNAVQQK
subtilisin					MRGKKVWISL

	60	70	80	90	100
PPFUL	VSQAALNAIM	KGQPNMVLII	KTKEGKLEEA	KTELEKLGAE	ILDENRVLNM
TCES	NYGLLTGPGLF	KKVQRMWNQ	EVDTVIMFGS	YGDRDRAVKV	LRLMGAQVKY
subtilisin	LFLALALIFTM	AFGSTSSAOA	AGKSNGEKKY	IVGFKQTMST	MSAAKKKDDVI

	110	120	130	140	150
PFUL	LLVKIKPEKV	KELNYISSLE	KAWLNREVKL	SPPIVEKDVK	TKEPSLEPKM
TCES	SYKIIIPAVAV	KIKARDLLLI	AGMIDTGYFG	NTRVSGIKFI	QEDYKVQVDD
subtilisin	SEKGGKVQKQ	FKYVDAASAT	LNEKAVKELK	KDPSVAYVEE	DHVAHAYAQS

	160	170	180	190	200
PFUL	YNSTWVINAL	QFIQEF	SGVWVAVIDT	GVDPNHPFLS	ITPDGRRKII
TCES	ATSVSQIGAD	TVWN ^{SL} GYDG	SGVWVAIVDT	GIDANHPDLK	GKVI ^{GW} YDAV
subtilisin	VPGV ^{SQ} IKA	PALH ^{SQ} GYTG	SNV ^{KVA} VIDS	GIDSSH ^{PD} LK	VAGGAS ^{MP} VS

	210	220	230	240	250
PFUL	EWKDFTDEGF	VDTSFSFSKV	VNGTLIIINTT	FQVASGLTLN	ESTGLMEYVV
TCES	NGRSTPYDDQ	-----	-----	-----	-----
subtilisin	ETNPFQDNN-	-----	-----	-----	-----

	260	270	280	290	300
PPFUL	KTVVSVNVTI	GNITSANGIY	HFGLLPERYF	DLNFDGDQED	FYPVLLVNST
ICES	-----	-----	-----	-----	-----
subtilisin	-----	-----	-----	-----	-----

Fig. 3

PFUL	310	320	330	340	350
TCES	GNFYDIAYVD	TDLDYDFIDE	VPLGQYNVTY	DVAVFSYYG	PLNYVLAIED
subtilisin	-----	-----	-----	-----	-----
PFUL	360	370	380	390	400
TCES	PNGEYAVFGW	DGHGTHVA	GTAVGYDSNN	DAWDWLSMYS	GEWEVFSRLY
subtilisin	-----	-----	-----	-----	-----
PFUL	410	420	430	440	450
TCES	GWDYTNVTTD	TVQGVAPCAQ	IMAIRVLRSD	GRGSMWDLIE	CMTYAAATHGA
subtilisin	-----	-----	-----	-----	-----
PFUL	460	470	480	490	500
TCES	---DVISM	LGGNAPYLDG	TDPESSVAVDE	LTEKYGVVFEV	IAAGNEGPGI
subtilisin	-----	-----	-----	-----	-----
PFUL	510	520	530	540	550
TCES	N--IVGSPGV	ATKATTVGAA	AVPINVGYYV	SQALGYPDYY	GFYFFPAYTN
subtilisin	-----	-----	-----	-----	-----
PFUL	560	570	580	590	600
TCES	VRIAEFSSRG	PRIDGEIKEN	VVAPGYGTYIS	SLEPMWIGGAD	F-----MS
subtilisin	-----	-----	-----	-----	-----

Fig. 4

PFUL	610	620	630	640	650
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	660	670	680	690	700
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	710	720	730	740	750
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	760	770	780	790	800
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	810	820	830	840	850
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	860	870	880	890	900
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin
PFUL	910	920	930	940	950
TCES	subtilisin	subtilisin	subtilisin	subtilisin	subtilisin

PFUL	960	970	980	990	1000
	GEFFIKGIEV	PEGTAELKIR	IGNPSVPNSD	LDLYLYDSKG	NLVALDGNPT
PFUL	1010	1020	1030	1040	1050
	AAAAVVVEYP	KPGVYSIVVH	GYSVRDENG	PTTTTFDLVV	QMTLDNGNIK
PFUL	1060	1070	1080	1090	1100
	LDKDSIILGS	NESVVVTANI	TIDRDHPTGV	YSGIIEIRD	EYQDTNTSI
PFUL	1110	1120	1130	1140	1150
	AKIPITLVID	KADFAVGLTP	AEGVLGEARN	YTLIVKHALT	LEPVPNATVI
PFUL	1160	1170	1180	1190	1200
	IGNYTYLTDE	NGTVTFTYAP	TKLGSDEITV	IVKKENFNLT	EKTFQITVSE
PFUL	1210	1220	1230	1240	1250
	PEITEEDINE	PKLAMSSPEA	NATIVSVEME	SEGGVKKTVT	VEITINGTAN
PFUL	1260	1270	1280	1290	1300
	ETATIVVPVP	KKAENIEVSG	DHVISYSIEE	GEYAKYVIIT	VKFASPVTVT
PFUL	1310	1320	1330	1340	1350
	VITYTIYAGPR	VSILTLNFLG	YSWYRLYSQK	FDELYQKALE	LGVDNETLAL
PFUL	1360	1370	1380	1390	1400
	ALSYHEKAKE	YYEKALELSE	GNIIQYLGDI	RLLPPLRQAY	INEMKAVKIL
PFUL	1410				
	EKAIEELEGE	E*			

Fig. 5

Fig. 6

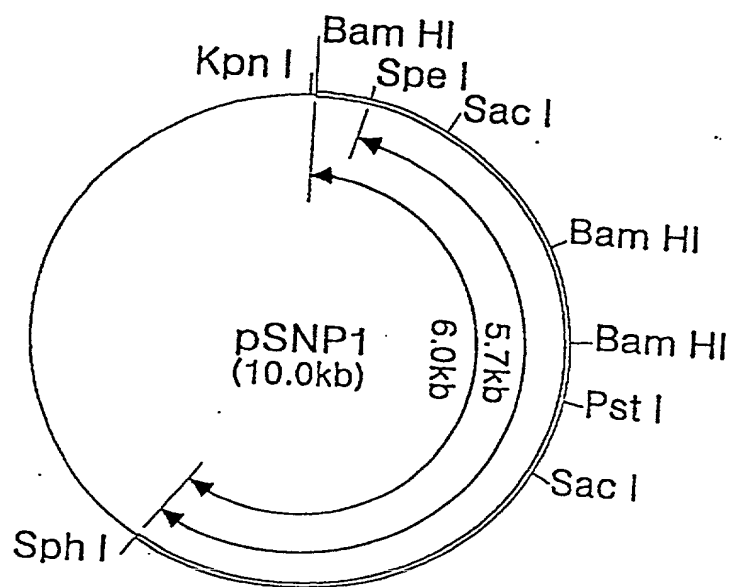


Fig. 7

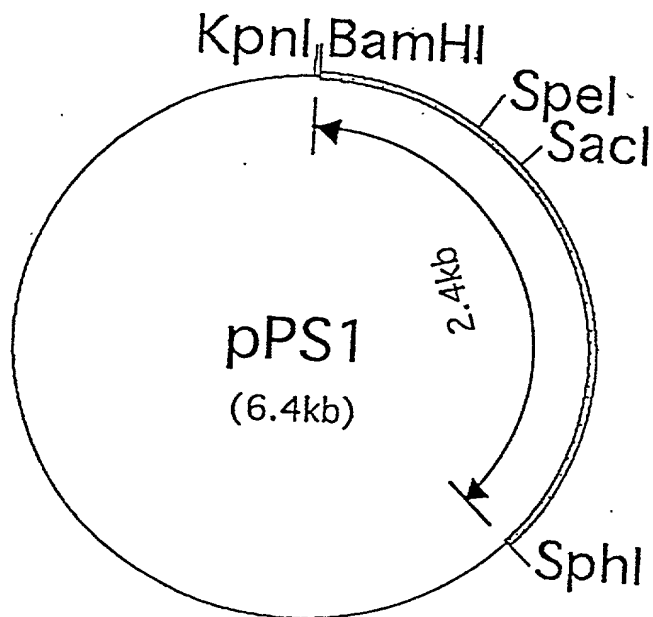


Fig. 8

